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 selection control means for controlling the intensity distribution of said carrier signals in synthesizing carrier signals based on the transmission characteristics of respective carrier signals.

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~~16~~. The receiver as defined in claim ~~14~~, wherein said selection control means selects signals to be put to said receiving signal synthesizing means from said carrier signals.

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~~17~~. The receiver as defined in claim ~~14~~, wherein said selection control means provides a uniform distribution mixing ratio among all the carrier signals to be put to said receiving signal synthesizing means.

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~~18~~. The receiver as defined in claim ~~14~~, wherein said selection control means provides a weighted distribution mixing ratio among all the carrier signals to be put to said receiving signal synthesizing means on the basis of the transmission line characteristics of the corresponding carrier signals.

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~~19~~. The receiver as defined in claim ~~14~~, wherein the transmission line characteristics measuring means determines the signal intensity of said carrier signals received.

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~~20~~. The receiver as defined in claim ~~14~~, wherein the transmission line characteristics measuring means determines the relative phase of said plurality of carrier signals received in relation to a reference phase.

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~~21~~. The receiver as defined in claim ~~14~~, wherein the transmission line characteristics measuring means determines both the signal intensity of said carrier signals received and the relative phase of said carrier signals received in relation to a reference phase.

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 28. A communication system in which a sender and a receiver are connected to each other, wherein the sender has:

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 a carrier signal generating means for generating a plurality of carrier signals with different frequencies based on an input signal; and,

a multiplication means for sending out on a transmission line said carrier signals modulated by said input signal; and,

wherein the receiver is provided with:

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a transmission line characteristics measuring means for receiving the carrier signals modulated by said input signal from the sender and for determining transmission line characteristics in respective frequency bands of said carrier signals; and

a receiving signal synthesizing means for synthesizing said carrier signals on the basis of the transmission line characteristics;

wherein, at least one of the sender and the receiver includes a selection control means for controlling the intensity distribution of the carrier signals based on the transmission characteristics of the respective carrier signals.

Please add claim 49 as follows.

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49. The sender of claim 10, further comprising selection control means for controlling the intensity distribution of the plurality of signals according to transmission characteristics of respective signals detected on the receiver side.